

**Table 6
Summary of Results for Wetland Sediment**

Wetland Sediment (all samples from 0-0.5 ft bgs)																							
Location	RI/FS Concentration Gradient (mg/kg DW)		2010 Analytical Results				Mean Bioassay Results***																
			2010 BERA Concentration Gradient (mg/kg DW)	Marine Sediment Benchmark (mg/kg DW)	Pore Water (mg/L)	Marine Surface Water Benchmark (mg/L)																	
BERA Sample ID: EWSED01 Wetland Sediment RI/FS sample ID: 2WSED04-004	Location represents high concentrations of multiple COPECs, including PAHs and pesticides; mid concentrations of nickel and 1 PAH; and low concentrations of copper, endrin aldehyde, lead and zinc. Several COPECs are below detection limit and not expected to be present.		Location represents high concentration of 1 PAH; mid concentrations of multiple PAHs and pesticides; and low concentrations of multiple PAHs, lead, and zinc.				<p><i>Polychaete - 28 day, Neanthes arenaceodentata</i></p> <p>Survival: No statistically significant difference from reference locations. Growth: No statistically significant difference from reference locations.</p> <table border="1"> <thead> <tr> <th>Location</th> <th>Mean Survival (%)</th> <th>Mean Biomass (mg)</th> <th>Mean Dry Wt (mg) **</th> </tr> </thead> <tbody> <tr> <td>EWSED01</td> <td>96</td> <td>3.073</td> <td>3.234</td> </tr> <tr> <td>EWSED08 (Ref 1)</td> <td>68</td> <td>1.586</td> <td>2.741</td> </tr> <tr> <td>EWSED09 (Ref 2)</td> <td>76</td> <td>2.15</td> <td>2.95</td> </tr> </tbody> </table>	Location	Mean Survival (%)	Mean Biomass (mg)	Mean Dry Wt (mg) **	EWSED01	96	3.073	3.234	EWSED08 (Ref 1)	68	1.586	2.741	EWSED09 (Ref 2)	76	2.15	2.95
Location	Mean Survival (%)	Mean Biomass (mg)	Mean Dry Wt (mg) **																				
EWSED01	96	3.073	3.234																				
EWSED08 (Ref 1)	68	1.586	2.741																				
EWSED09 (Ref 2)	76	2.15	2.95																				
2-Methylnaphthalene	0.153 U	NA	0.0038 J	Low	0.070	0.000018 U	0.03																
4,4'-DDT	0.000939 U	NA	< 0.001 J	NA	0.00119	< 0.000012 J	0.000001																
Acenaphthene	0.153 U	NA	0.0046 J	Low	0.016	< 0.0000052	0.0404																
Acenaphthylene	0.545	High	0.057	Low	0.044	0.000024	NA																
Anthracene	0.334	Mid	0.043	Low	0.0853	0.000067	0.00018																
Arsenic	0.35 U	NA	2.97	Low	8.2	0.0037 J	0.078																
Benzo(a)anthracene	0.126 U	NA	< 0.066 J	NA	0.261	< 0.0000031	NA																
Benzo(a)pyrene	0.972	High	0.24	Mid	0.43	< 0.0000051	NA																
Benzo(g,h,i)perylene	1.94	High	0.63	High	0.67	0.000012 J	NA																
Chrysene	4.05	High	0.39	Mid	0.384	< 0.000004	NA																
Copper	16	Low	20.6	Mid	34	0.000922	0.0036																
Dibenz(a,h)anthracene	2.91	High	0.17	Mid	0.0634	< 0.000003	NA																
Endrin Aldehyde	0.00431	Low	0.0007 J	Mid	0.00267	0.000013	0.000002																
Endrin Ketone	0.013	High	< 0.000093	NA	0.00267	< 0.00000078	0.000002																
Fluoranthene	0.189 U	NA	0.038	Low	0.6	< 0.0000052	0.00296																
Fluorene	0.12U	NA	0.019	Low	0.019	0.000013 J	0.05																
gamma-chlordane	0.0036	High	< 0.00009	NA	0.00226	< 0.00000038	0.000004																
Indeno(1,2,3-cd)pyrene	1.94	High	0.22	Mid	0.6	0.0000051 J	NA																
Lead	18.3	Low	17.2	Low	46.7	0.000115 U	0.0053																
Nickel	21.3	Mid	18.9	Mid	20.9	0.00944	0.0131																
Phenanthrene	0.111 U	NA	0.032	Low	0.24	0.000012 J	0.0046																
Pyrene	1.18	High	0.091	Mid	0.665	< 0.0000042	0.00024																
Zinc	116	Low	115	Low	150	0.0101	0.0842																
Total PAHs*	NA	NA	1.9	NA	4.022	NA	NA																
Total Organic Carbon	NA	NA	59,400	NA	NA	NA	NA																
Acid Volatile Sulfides/Simultaneously Extracted Metals	NA	NA	0.089	NA	NA	NA	NA																
Grain Size	NA	NA	See Table 7	NA	NA	NA	NA																

Amphipod - 28 day, Leptocheirus plumulosus

Survival: No statistically significant difference from reference locations.
Growth: No statistically significant difference from reference locations.
Reproduction: Insufficient offspring for statistical analysis.

Location	Mean Survival (%)	Offspring (avg)	Mean Biomass (mg)	Mean Dry Wt (mg) **
EWSED01	35	0	0.2607	0.6566
EWSED08 (Ref 1)	33	0.6	0.2238	0.5988
EWSED09 (Ref 2)	19	1.8	0.1162	0.5035

**Table 6
Summary of Results for Wetland Sediment**

Wetland Sediment (all samples from 0-0.5 ft bgs)							
Location	RI/FS Concentration Gradient (mg/kg DW)		2010 Analytical Results				Mean Bioassay Results***
			2010 BERA Concentration Gradient (mg/kg DW)	Marine Sediment Benchmark (mg/kg DW)	Pore Water (mg/L)	Marine Surface Water Benchmark (mg/L)	
BERA Sample ID: EWSED02 Wetland Sediment RI/FS sample ID: 2WSED03-003	Location represents high concentration of multiple COPECs, including PAHs and pesticides; mid concentrations of two PAHs and nickel; and low concentrations of copper, endrin ketone, lead and zinc. Several COPECs are below detection limit and not expected to be present.		Location represents high concentration of 1 PAH; mid concentrations of five PAHs; and low concentrations of several PAHs, arsenic, copper, lead, nickel, and zinc.				Polychaete - 28 day, <i>Neanthes arenaceodentata</i> Survival: No statistically significant difference from reference locations. Growth: No statistically significant difference from reference locations.
2-Methylnaphthalene	0.173 U	NA	0.002 J / 0.0026 J	Low	0.070	0.000026 U	0.03
4,4'-DDT	0.00107 U	NA	< 0.00017 / < 0.00017	NA	0.00119	< 0.0000047 J	0.000001
Acenaphthene	0.173 U	NA	0.0018 J / 0.0013 J	Low	0.016	< 0.0000044	0.0404
Acenaphthylene	0.346	Mid	0.041 / 0.03	Low	0.044	< 0.0000034	NA
Anthracene	0.241	Mid	0.032 / 0.024	Low	0.0853	< 0.0000036	0.00018
Arsenic	0.4 U	NA	2.4 / 2.51	Low	8.2	0.0041 J	0.078
Benzo(a)anthracene	U	NA	< 0.043 J / < 0.00072	NA	0.261	< 0.0000026	NA
Benzo(a)pyrene	0.631	High	0.12 / 0.097	Mid	0.43	< 0.0000043	NA
Benzo(g,h,i)perylene	1.52	High	0.46 / 0.38	Mid	0.67	0.000012 J	NA
Chrysene	2.73	High	0.62 / 0.49	High	0.384	0.000049	NA
Copper	12.6	Low	13.3 / 14.6	Low	34	0.000342 U	0.0036
Dibenz(a,h)anthracene	2.83	High	0.11 / 0.094	Mid	0.0634	0.0000034 J	NA
Endrin Aldehyde	0.01	High	< 0.00012 / < 0.001 J	NA	0.00267	0.0000067 J	0.000002
Endrin Ketone	0.00619	Low	< 0.000093 / < 0.0011 J	NA	0.00267	< 0.0000013 J	0.000002
Fluoranthene	0.213 U	NA	0.023 / 0.019	Low	0.6	< 0.0000044	0.00296
Fluorene	0.135 U	NA	0.013 / 0.011	Low	0.019	< 0.0000038	0.05
gamma-chlordane	0.000862 U	NA	< 0.00009 / < 0.00009	NA	0.00226	< 0.0000013 J	0.000004
Indeno(1,2,3-cd)pyrene	1.59	High	0.19 / 0.16	Mid	0.6	0.0000062 J	NA
Lead	17.2	Low	12 / 14.7	Low	46.7	0.000113 U	0.0053
Nickel	20.9	Mid	15.6 / 17.3	Low	20.9	0.00486	0.0131
Phenanthrene	0.125 U	NA	0.016 / 0.014	Low	0.24	< 0.000005	0.0046
Pyrene	0.729	High	0.14 / 0.11	Mid	0.665	< 0.0000035	0.00024
Zinc	115	Low	70.1 / 86.1	Low	150	0.00135 U	0.0842
Total PAHs*	NA	NA	1.8/1.4	NA	4.022	NA	NA
Total Organic Carbon	NA	NA	24,100 / 30,500	NA	NA	NA	NA
Acid Volatile Sulfides/Simultaneously Extracted Metals	NA	NA	0.014	NA	NA	NA	NA
Grain Size	NA	NA	See Table 7	NA	NA	NA	NA

Location	Mean Survival (%)	Mean Biomass (mg)	Mean Dry Wt (mg) **
EWSED02	76	2.285	3.334
EWSED08 (Ref 1)	68	1.586	2.741
EWSED09 (Ref 2)	76	2.15	2.95

Amphipod - 28 day, *Leptocheirus plumulosus*

Survival: No statistically significant difference from reference locations.
Growth: No statistically significant difference from reference locations.
Reproduction: Insufficient offspring for statistical analysis.

Location	Mean Survival (%)	Offspring (avg)	Mean Biomass (mg)	Mean Dry Wt (mg) **
EWSED02	58	0.2	0.2313	0.4916
EWSED08 (Ref 1)	33	0.6	0.2238	0.5988
EWSED09 (Ref 2)	19	1.8	0.1162	0.5035

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Summary of Results for Wetland Sediment**

Wetland Sediment (all samples from 0-0.5 ft bgs)							
Location	RI/FS Concentration Gradient (mg/kg DW)		2010 Analytical Results				Mean Bioassay Results***
			2010 BERA Concentration Gradient (mg/kg DW)		Marine Sediment Benchmark (mg/kg DW)	Pore Water (mg/L)	
BERA Sample ID: EWSED03 Wetland Sediment RI/FS sample ID: NF4SE13-013	Location represents high concentrations of arsenic, copper, nickel, and zinc; mid concentrations of 4,4'-DDT, 5 PAHs and lead, and pyrene; and low concentrations of 2 PAHs. Several COPECs are below detection limit and not expected to be present.		Location represents high concentrations of arsenic, copper, nickel, and zinc; mid concentrations of 4,4'-DDT, 2 PAHs and lead; and low concentrations of 12 PAHs and endrin aldehyde.				<i>Polychaete - 28 day, Neanthes arenaceodentata</i> Survival: No statistically significant difference from reference locations. Growth: No statistically significant difference from reference locations.
2-Methylnaphthalene	0.0122	Low	0.0068	Low	0.070	0.000022 U	0.03
4,4'-DDT	0.00254	Mid	0.0028	Mid	0.00119	< 0.000016 J	0.000001
Acenaphthene	0.0103 U	NA	0.0043 J	Low	0.016	< 0.0000047	0.0404
Acenaphthylene	0.0117 U	NA	0.0032 J	Low	0.044	< 0.0000036	NA
Anthracene	0.0126	Low	0.005	Low	0.0853	0.000013 J	0.00018
Arsenic	12.8	High	5.36	High	8.2	0.0019 J	0.078
Benzo(a)anthracene	0.0106 U	NA	0.024	Low	0.261	< 0.0000028	NA
Benzo(a)pyrene	0.0105 U	NA	0.028	Low	0.43	< 0.0000046	NA
Benzo(g,h,i)perylene	0.133	Mid	0.058	Low	0.67	< 0.0000031	NA
Chrysene	0.0904	Mid	0.064	Mid	0.384	< 0.0000036	NA
Copper	35.7	High	25	High	34	0.00456	0.0036
Dibenz(a,h)anthracene	0.0555	Low	0.0074	Low	0.0634	< 0.0000027	NA
Endrin Aldehyde	0.000403 U	NA	0.00027 J	Low	0.00267	0.000015 J	0.000002
Endrin Ketone	0.000505 U	NA	< 0.00011 J	NA	0.00267	0.000007 J	0.000002
Fluoranthene	0.0117 U	NA	0.052	Low	0.6	< 0.0000047	0.00296
Fluorene	0.0102 U	NA	0.0048	Low	0.019	< 0.000004	0.05
gamma-chlordane	0.000265 U	NA	< 0.00009	NA	0.00226	< 0.000016 J	0.000004
Indeno(1,2,3-cd)pyrene	0.0951	Mid	0.034	Low	0.6	< 0.0000028	NA
Lead	64.7	Mid	48.4	Mid	46.7	0.000425 U	0.0053
Nickel	27.7	High	21.7	High	20.9	0.00749 U	0.0131
Phenanthrene	0.0898	Mid	0.049	Low	0.24	0.0000053 U	0.0046
Pyrene	0.109	Mid	0.069	Mid	0.665	< 0.0000037	0.00024
Zinc	903	High	585	High	150	0.0413	0.0842
Total PAHs*	NA	NA	0.4	NA	4.022	NA	NA
Total Organic Carbon	NA	NA	18,200	NA	NA	NA	NA
Acid Volatile Sulfides/Simultaneously Extracted Metals	NA	NA	0.002	NA	NA	NA	NA
Grain Size	NA	NA	See Table 7	NA	NA	NA	NA

Location	Mean Survival (%)	Mean Biomass (mg)	Mean Dry Wt (mg) **
EWSED03	84	2.004	2.421
EWSED08 (Ref 1)	68	1.586	2.741
EWSED09 (Ref 2)	76	2.15	2.95

Amphipod - 28 day, Leptocheirus plumulosus

Survival: No statistically significant difference from reference locations.
Growth: No statistically significant difference from reference locations.
Reproduction: Insufficient offspring for statistical analysis.

Location	Mean Survival (%)	Offspring (avg)	Mean Biomass (mg)	Mean Dry Wt (mg) **
EWSED03	20	0	0.2015	0.4202
EWSED08 (Ref 1)	33	0.6	0.2238	0.5988
EWSED09 (Ref 2)	19	1.8	0.1162	0.5035

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Summary of Results for Wetland Sediment**

Wetland Sediment (all samples from 0-0.5 ft bgs)							
Location	RI/FS Concentration Gradient (mg/kg DW)		2010 Analytical Results				Mean Bioassay Results***
			2010 BERA Concentration Gradient (mg/kg DW)	Marine Sediment Benchmark (mg/kg DW)	Pore Water (mg/L)	Marine Surface Water Benchmark (mg/L)	
BERA Sample ID: EWSED04 Wetland Sediment RI/FS sample ID: 2WSD17-17	Location represents high concentrations of 8 PAHs, arsenic, and lead; mid concentrations of 4 PAHs, copper, and zinc; and low concentrations of 1 PAH and nickel. Organochlorine pesticides are below detection limit and not expected to be present.		Location represents high concentration of arsenic; mid concentrations of 4 PAHs, copper, lead, and zinc; and low concentrations of 10 PAHs and nickel.				<i>Polychaete - 28 day, Neanthes arenaceodentata</i> Survival: No statistically significant difference from reference locations. Growth: No statistically significant difference from reference locations.
2-Methylnaphthalene	0.053	Low	0.0037 J	Low	0.070	0.000046	0.03
4,4'-DDT	0.000829 U	NA	NA	NA	0.00119	NA	0.000001
Acenaphthene	0.133	Mid	0.0026 J	Low	0.016	< 0.0000085 J	0.0404
Acenaphthylene	0.013 U	NA	0.0069	Low	0.044	0.000014 J	NA
Anthracene	0.257	Mid	0.006	Low	0.0853	0.000047	0.00018
Arsenic	1.4	High	4.35	High	8.2	0.00072 J / 0.00325	0.078
Benzo(a)anthracene	0.724	High	0.031	Low	0.261	< 0.0000026	NA
Benzo(a)pyrene	0.618	High	0.04	Low	0.43	< 0.0000043	NA
Benzo(g,h,i)perylene	0.527	High	0.076	Mid	0.67	< 0.0000029	NA
Chrysene	0.743	High	0.05	Low	0.384	< 0.0000034	NA
Copper	25.6	Mid	20.3	Mid	34	0.00426 / 0.00531 U	0.0036
Dibenz(a,h)anthracene	0.312	Mid	0.01	Low	0.0634	< 0.0000025	NA
Endrin Aldehyde	0.000706 U	NA	NA	NA	0.00267	NA	0.000002
Endrin Ketone	0.000603 U	NA	NA	NA	0.00267	NA	0.000002
Fluoranthene	1.43	High	0.076	Mid	0.6	< 0.0000044	0.00296
Fluorene	0.139	Mid	0.0032 J	Low	0.019	0.0000047 J	0.05
gamma-chlordane	0.000669 U	NA	NA	NA	0.00226	NA	0.000004
Indeno(1,2,3-cd)pyrene	0.752	High	0.064	Mid	0.6	< 0.0000026	NA
Lead	237	High	37.4	Mid	46.7	0.00015 U / 0.000239 U	0.0053
Nickel	13.7	Low	16.9	Low	20.9	0.0114 / 0.0069	0.0131
Phenanthrene	1.18	High	0.041	Low	0.24	< 0.000005	0.0046
Pyrene	1.34	High	0.075	Mid	0.665	< 0.0000035	0.00024
Zinc	404	Mid	417	Mid	150	0.101 / 0.083	0.0842
Total PAHs*	NA	NA	0.5	NA	4.022	NA	NA
Total Organic Carbon	NA	NA	16,700	NA	NA	NA	NA
Acid Volatile Sulfides/Simultaneously Extracted Metals	NA	NA	0.039	NA	NA	NA	NA
Grain Size	NA	NA	See Table 7	NA	NA	NA	NA

Location	Mean Survival (%)	Mean Biomass (mg)	Mean Dry Wt (mg) **
EWSED04	84	2.53	2.988
EWSED08 (Ref 1)	68	1.586	2.741
EWSED09 (Ref 2)	76	2.15	2.95

Amphipod - 28 day, Leptocheirus plumulosus

Survival: No statistically significant difference from reference locations.
Growth: No statistically significant difference from reference locations.
Reproduction: Insufficient offspring for statistical analysis.

Location	Mean Survival (%)	Offspring (avg)	Mean Biomass (mg)	Mean Dry Wt (mg) **
EWSED04	23.75	0	0.1518	0.529
EWSED08 (Ref 1)	33	0.6	0.2238	0.5988
EWSED09 (Ref 2)	19	1.8	0.1162	0.5035

**Table 6
Summary of Results for Wetland Sediment**

Wetland Sediment (all samples from 0-0.5 ft bgs)							
Location	RI/FS Concentration Gradient (mg/kg DW)		2010 Analytical Results				Mean Bioassay Results***
			2010 BERA Concentration Gradient (mg/kg DW)	Marine Sediment Benchmark (mg/kg DW)	Pore Water (mg/L)	Marine Surface Water Benchmark (mg/L)	
BERA Sample ID: EWSED05 Wetland Sediment RI/FS sample ID: NB4SE08-008	Location represents high concentrations of 8 PAHs, 4,4'-DDT, copper, and zinc; mid concentrations of 4 PAHs, arsenic, and lead; and low concentrations of 2 PAHs, endrin aldehyde, and nickel. Two organochlorine pesticides are below detection limit and not expected to be present.		Location represents high concentrations of 8 PAHs, copper, endrin aldehyde, lead, and zinc; mid concentrations of 4 PAHs; and low concentrations of 2 PAHs and nickel.				<i>Polychaete - 28 day, Neanthes arenaceodentata</i> Survival: No statistically significant difference from reference locations. Growth: No statistically significant difference from reference locations.
2-Methylnaphthalene	0.0396	Low	0.02	Low	0.070	NA	NA
4,4'-DDT	0.00922	High	< 0.019 J	NA	0.00119	NA	NA
Acenaphthene	0.113	Mid	0.075	Mid	0.016	NA	NA
Acenaphthylene	0.0291	Low	0.018	Low	0.044	NA	NA
Anthracene	0.188	Mid	0.078	Mid	0.0853	NA	NA
Arsenic	3.53	Mid	3.06	Mid	8.2	NA	NA
Benzo(a)anthracene	0.993	High	0.55	High	0.261	NA	NA
Benzo(a)pyrene	1.3	High	0.79	High	0.43	NA	NA
Benzo(g,h,i)perylene	0.862	High	0.68	High	0.67	NA	NA
Chrysene	1.27	High	0.77	High	0.384	NA	NA
Copper	39.6	High	28.9	High	34	NA	NA
Dibenz(a,h)anthracene	0.337	Mid	0.14	Mid	0.0634	NA	NA
Endrin Aldehyde	0.00452	Low	0.0014 J	High	0.00267	NA	NA
Endrin Ketone	0.000458 U	NA	< 0.001 J	NA	0.00267	NA	NA
Fluoranthene	2.17	High	1.3	High	0.6	NA	NA
Fluorene	0.127	Mid	0.065	Mid	0.019	NA	NA
gamma-chlordane	0.00024 U	NA	< 0.00009	NA	0.00226	NA	NA
Indeno(1,2,3-cd)pyrene	1.1	High	0.79	High	0.6	NA	NA
Lead	88.1	Mid	76.1	High	46.7	NA	NA
Nickel	10.9	Low	14.4	Low	20.9	NA	NA
Phenanthrene	1.3	High	0.78	High	0.24	NA	NA
Pyrene	1.64	High	1.1	High	0.665	NA	NA
Zinc	601	High	595	High	150	NA	NA
Total PAHs*	NA	NA	7.2	NA	4.022	NA	NA
Total Organic Carbon	NA	NA	18,100	NA	NA	NA	NA
Acid Volatile Sulfides/Simultaneously Extracted Metals	NA	NA	0.002	NA	NA	NA	NA
Grain Size	NA	NA	See Table 7	NA	NA	NA	NA

Location	Mean Survival (%)	Mean Biomass (mg)	Mean Dry Wt (mg) **
EWSED05	72	2.248	3.285
EWSED08 (Ref 1)	68	1.586	2.741
EWSED09 (Ref 2)	76	2.15	2.95

Amphipod - 28 day, Leptocheirus plumulosus

Survival: No statistically significant difference from reference locations.
Growth: No statistically significant difference from reference locations.
Reproduction: Insufficient offspring for statistical analysis.

Location	Mean Survival (%)	Offspring (avg)	Mean Biomass (mg)	Mean Dry Wt (mg) **
EWSED05	38	0	0.1614	0.4109
EWSED08 (Ref 1)	33	0.6	0.2238	0.5988
EWSED09 (Ref 2)	19	1.8	0.1162	0.5035

**Table 6
Summary of Results for Wetland Sediment**

Wetland Sediment (all samples from 0-0.5 ft bgs)							
Location	RI/FS Concentration Gradient (mg/kg DW)		2010 Analytical Results				Mean Bioassay Results***
			2010 BERA Concentration Gradient (mg/kg DW)	Marine Sediment Benchmark (mg/kg DW)	Pore Water (mg/L)	Marine Surface Water Benchmark (mg/L)	
BERA Sample ID: EWSED06 Wetland Sediment RI/FS sample ID: SPSE03 (Location from Pond)	Location represents high concentration of zinc; mid concentrations of arsenic copper, lead, nickel, benzo(g,h,i)perylene; and low concentrations of 4,4'-DDT, chrysene, and pyrene.		Location represents high concentrations of copper, nickel, and zinc; mid concentrations of 4,4'-DDT, arsenic, and lead; and low concentrations of 15 PAHs.				Polychaete - 28 day, <i>Neanthes arenaceodentata</i> Survival: No statistically significant difference from reference locations. Growth: No statistically significant difference from reference locations.
2-Methylnaphthalene	NA	NA	0.0016 J	Low	0.070	0.000019 U	0.03
4,4'-DDT	0.00157	Low	0.0012	Mid	0.00119	< 0.00000058	0.000001
Acenaphthene	NA	NA	0.0013 J	Low	0.016	0.0000091 J	0.0404
Acenaphthylene	NA	NA	0.0008 J	Low	0.044	< 0.0000035	NA
Anthracene	NA	NA	0.0011 J	Low	0.0853	< 0.0000037	0.00018
Arsenic	5.01	Mid	3.23	Mid	8.2	0.00177 J	0.078
Benzo(a)anthracene	NA	NA	0.0069	Low	0.261	0.0000095 U	NA
Benzo(a)pyrene	NA	NA	0.01	Low	0.43	0.0000097 U	NA
Benzo(g,h,i)perylene	0.135	Mid	0.019	Low	0.67	0.000023 U	NA
Chrysene	0.0257	Low	0.014	Low	0.384	0.0000096 U	NA
Copper	26.8	Mid	28.1	High	34	0.00702	0.0036
Dibenz(a,h)anthracene	NA	NA	0.0026 J	Low	0.0634	0.000015 U	NA
Endrin Aldehyde	NA	NA	< 0.00012	NA	0.00267	< 0.00000046	0.000002
Endrin Ketone	NA	NA	< 0.000093	NA	0.00267	< 0.00000066	0.000002
Fluoranthene	NA	NA	0.02	Low	0.6	< 0.0000045	0.00296
Fluorene	NA	NA	0.001 J	Low	0.019	0.0000091 J	0.05
gamma-chlordane	NA	NA	0.00025 J	Low	0.00226	< 0.00000032	0.000004
Indeno(1,2,3-cd)pyrene	NA	NA	0.019	Low	0.6	0.000014 U	NA
Lead	30.5	Mid	32.9	Mid	46.7	0.000443 U	0.0053
Nickel	20.6	Mid	22.5	High	20.9	0.00915	0.0131
Phenanthrene	NA	NA	0.013	Low	0.24	0.0000068 J	0.0046
Pyrene	0.0265	Low	0.021	Low	0.665	< 0.0000036	0.00024
Zinc	999	High	959	High	150	0.626	0.0842
Total PAHs*	NA	NA	0.13	NA	4.022	NA	NA
Total Organic Carbon	NA	NA	21.500	NA	NA	NA	NA
Acid Volatile Sulfides/Simultaneously Extracted Metals	NA	NA	0.084	NA	NA	NA	NA
Grain Size	NA	NA	See Table 7	NA	NA	NA	NA

Location	Mean Survival (%)	Mean Biomass (mg)	Mean Dry Wt (mg) **
EWSED06	80	1.78	2.36
EWSED08 (Ref 1)	68	1.586	2.741
EWSED09 (Ref 2)	76	2.15	2.95

Amphipod - 28 day, *Leptocheirus plumulosus*

Survival: No statistically significant difference from reference locations.
Growth: No statistically significant difference from reference locations.
Reproduction: Insufficient offspring for statistical analysis.

Location	Mean Survival (%)	Offspring (avg)	Mean Biomass (mg)	Mean Dry Wt (mg) **
EWSED06	13	0	0.05225	0.3764
EWSED08 (Ref 1)	33	0.6	0.2238	0.5988
EWSED09 (Ref 2)	19	1.8	0.1162	0.5035

**Table 6
Summary of Results for Wetland Sediment**

Wetland Sediment (all samples from 0-0.5 ft bgs)							
Location	RI/FS Concentration Gradient (mg/kg DW)		2010 Analytical Results				Mean Bioassay Results***
			2010 BERA Concentration Gradient (mg/kg DW)	Marine Sediment Benchmark (mg/kg DW)	Pore Water (mg/L)	Marine Surface Water Benchmark (mg/L)	
BERA Sample ID: EWSED07 Wetland Sediment RI/FS sample ID: 4WSED3	Location represents mid concentrations of 8 PAHs, copper, lead, nickel, and zinc; and low concentrations of 3 PAHs. Organochlorine pesticides were not detected in this sample and are assumed not to be present.		Location represents high concentrations of arsenic, copper, and nickel; mid concentrations of 8 PAHs, lead, and zinc; and low concentrations of 6 PAHs.				Polychaete - 28 day, <i>Neanthes arenaceodentata</i> Survival: No statistically significant difference from reference locations. Growth: No statistically significant difference from reference locations.
2-Methylnaphthalene	0.00936 U	NA	0.0053	Low	0.070	0.000013 U	0.03
4,4'-DDT	0.00498 U	NA	NA	NA	0.00119	NA	0.000001
Acenaphthene	0.016	Low	0.009	Low	0.016	< 0.000012	0.0404
Acenaphthylene	0.00746 U	NA	0.0091	Low	0.044	0.000032 J	NA
Anthracene	0.033	Low	0.027	Low	0.0853	0.000066	0.00018
Arsenic	0.12 U	NA	5.94	High	8.2	0.00063 J	0.078
Benzo(a)anthracene	0.199	Mid	0.09	Mid	0.261	< 0.000067	NA
Benzo(a)pyrene	0.227	Mid	0.087	Mid	0.43	< 0.000012	NA
Benzo(g,h,i)perylene	0.209	Mid	0.1	Mid	0.67	< 0.000075	NA
Chrysene	0.094	Mid	0.14	Mid	0.384	< 0.000088	NA
Copper	27.6	Mid	30.7	High	34	0.00303	0.0036
Dibenz(a,h)anthracene	0.00635 U	NA	0.019	Low	0.0634	< 0.000065	NA
Endrin Aldehyde	0.00579 U	NA	NA	NA	0.00267	NA	0.000002
Endrin Ketone	0.00527 U	NA	NA	NA	0.00267	NA	0.000002
Fluoranthene	0.176	Mid	0.26	Mid	0.6	< 0.000012	0.00296
Fluorene	0.015	Low	0.016	Low	0.019	< 0.000098	0.05
gamma-chlordane	0.00423 U	NA	NA	NA	0.00226	NA	0.000004
Indeno(1,2,3-cd)pyrene	0.408	Mid	0.1	Mid	0.6	< 0.000067	NA
Lead	29.3	Mid	32.7	Mid	46.7	0.000184	0.0053
Nickel	19.6	Mid	20.1	High	20.9	0.00917	0.0131
Phenanthrene	0.135	Mid	0.15	Mid	0.24	< 0.000013	0.0046
Pyrene	0.188	Mid	0.19	Mid	0.665	< 0.000009	0.00024
Zinc	290	Mid	318	Mid	150	0.0599	0.0842
Total PAHs*	NA	NA	1.2	NA	4.022	NA	NA
Total Organic Carbon	NA	NA	23.900	NA	NA	NA	NA
Acid Volatile Sulfides/Simultaneously Extracted Metals	NA	NA	0.005	NA	NA	NA	NA
Grain Size	NA	NA	See Table 7	NA	NA	NA	NA

Location	Mean Survival (%)	Mean Biomass (mg)	Mean Dry Wt (mg) **
EWSED07	72	2.451	3.371
EWSED08 (Ref 1)	68	1.586	2.741
EWSED09 (Ref 2)	76	2.15	2.95

Amphipod - 28 day, *Leptocheirus plumulosus*

Survival: No statistically significant difference from reference locations.
Growth: No statistically significant difference from reference locations.
Reproduction: Insufficient offspring for statistical analysis.

Location	Mean Survival (%)	Offspring (avg)	Mean Biomass (mg)	Mean Dry Wt (mg) **
EWSED07	30	0.8	0.124	0.3924
EWSED08 (Ref 1)	33	0.6	0.2238	0.5988
EWSED09 (Ref 2)	19	1.8	0.1162	0.5035

**Table 6
Summary of Results for Wetland Sediment**

Wetland Sediment (all samples from 0-0.5 ft bgs)																	
Location	RI/FS Concentration Gradient (mg/kg DW)		2010 Analytical Results				Mean Bioassay Results***										
			2010 BERA Concentration Gradient (mg/kg DW)		Marine Sediment Benchmark (mg/kg DW)	Pore Water (mg/L)		Marine Surface Water Benchmark (mg/L)									
BERA Sample ID: EWSED08 Wetland Sediment Reference Location near RI Sample Location 3WSED6	Location represents a reference/background location not impacted by site activities, but with similar physical attributes.		Location represents mid concentration of 4,4'-DDT; and low concentrations of PAHs and metals.				<i>Polychaete - 28 day, Neanthes arenaceodentata</i>										
							<table border="1"> <thead> <tr> <th>Location</th> <th>Mean Survival (%)</th> <th>Mean Biomass (mg)</th> <th>Mean Dry Wt (mg)**</th> </tr> </thead> <tbody> <tr> <td>EWSED08 (Ref 1)</td> <td>68</td> <td>1.586</td> <td>2.741</td> </tr> </tbody> </table>	Location	Mean Survival (%)	Mean Biomass (mg)	Mean Dry Wt (mg)**	EWSED08 (Ref 1)	68	1.586	2.741		
Location	Mean Survival (%)	Mean Biomass (mg)	Mean Dry Wt (mg)**														
EWSED08 (Ref 1)	68	1.586	2.741														
2-Methylnaphthalene	NA	NA	0.001 J	Low	0.070	0.0000083 U	0.03										
4,4'-DDT	NA	NA	0.00140	Mid	0.00119	0.000003 J	0.000001										
Acenaphthene	NA	NA	< 0.00088	NA	0.016	< 0.000005	0.0404										
Acenaphthylene	NA	NA	< 0.00069	NA	0.044	< 0.0000039	NA										
Anthracene	NA	NA	0.001 J	Low	0.0853	< 0.0000041	0.00018										
Arsenic	NA	NA	2.92	Low	8.2	0.00576 J	0.078										
Benzo(a)anthracene	NA	NA	0.011	Low	0.261	< 0.000003	NA										
Benzo(a)pyrene	NA	NA	0.014	Low	0.43	< 0.0000049	NA										
Benzo(g,h,i)perylene	NA	NA	0.017	Low	0.67	< 0.0000033	NA										
Chrysene	NA	NA	0.017	Low	0.384	< 0.0000039	NA										
Copper	NA	NA	15.8	Low	34	0.00137	0.0036										
Dibenz(a,h)anthracene	NA	NA	0.003 J	Low	0.0634	< 0.0000029	NA										
Endrin Aldehyde	NA	NA	0.00052 J	Low	0.00267	0.0000026 J	0.000002										
Endrin Ketone	NA	NA	< 0.00012	NA	0.00267	< 0.0000007	0.000002										
Fluoranthene	NA	NA	0.031	Low	0.6	< 0.000005	0.00296										
Fluorene	NA	NA	0.00092 J	Low	0.019	< 0.0000044	0.05										
gamma-chlordane	NA	NA	< 0.00012 J	NA	0.00226	0.0000033 J	0.000004										
Indeno(1,2,3-cd)pyrene	NA	NA	0.019	Low	0.6	< 0.000003	NA										
Lead	NA	NA	19.8	Low	46.7	0.00128 U	0.0053										
Nickel	NA	NA	16.3	Low	20.9	0.0142	0.0131										
Phenanthrene	NA	NA	0.015	Low	0.24	< 0.0000057	0.0046										
Pyrene	NA	NA	0.027	Low	0.665	< 0.000004	0.00024										
Zinc	NA	NA	94.3	Low	150	0.039	0.0842										
Total PAHs*	NA	NA	0.16	NA	4.022	NA	NA										
Total Organic Carbon	NA	NA	46,800	NA	NA	NA	NA										
Acid Volatile Sulfides/Simultaneously Extracted Metals	NA	NA	6.4	NA	NA	NA	NA										
Grain Size	NA	NA	See Table 7	NA	NA	NA	NA										
							<table border="1"> <thead> <tr> <th>Location</th> <th>Mean Survival (%)</th> <th>Offspring (avg)</th> <th>Mean Biomass (mg)</th> <th>Mean Dry Wt (mg)**</th> </tr> </thead> <tbody> <tr> <td>EWSED08 (Ref 1)</td> <td>33</td> <td>0.6</td> <td>0.2238</td> <td>0.5988</td> </tr> </tbody> </table>	Location	Mean Survival (%)	Offspring (avg)	Mean Biomass (mg)	Mean Dry Wt (mg)**	EWSED08 (Ref 1)	33	0.6	0.2238	0.5988
Location	Mean Survival (%)	Offspring (avg)	Mean Biomass (mg)	Mean Dry Wt (mg)**													
EWSED08 (Ref 1)	33	0.6	0.2238	0.5988													
							<i>Amphipod - 28 day, Leptocheirus plumulosus</i>										

**Table 6
Summary of Results for Wetland Sediment**

Wetland Sediment (all samples from 0-0.5 ft bgs)															
Location	RI/FIS Concentration Gradient (mg/kg DW)		2010 Analytical Results				Mean Bioassay Results***								
			2010 BERA Concentration Gradient (mg/kg DW)	Marine Sediment Benchmark (mg/kg DW)	Pore Water (mg/L)	Marine Surface Water Benchmark (mg/L)									
BERA Sample ID: EWSED09 Wetland Sediment Reference Location near RI Sample Location 2WSED11	Location represents a reference/background location not impacted by site activities, but with similar physical attributes.		Location represents mid concentration of 4,4'-DDT; and low concentrations of PAHs and metals.				Polychaete - 28 day, <i>Neanthes arenaceodentata</i> <table border="1"> <thead> <tr> <th>Location</th> <th>Mean Survival (%)</th> <th>Mean Biomass (mg)</th> <th>Mean Dry Wt (mg)**</th> </tr> </thead> <tbody> <tr> <td>EWSED09 (Ref 2)</td> <td>76</td> <td>2.15</td> <td>2.95</td> </tr> </tbody> </table>	Location	Mean Survival (%)	Mean Biomass (mg)	Mean Dry Wt (mg)**	EWSED09 (Ref 2)	76	2.15	2.95
Location	Mean Survival (%)	Mean Biomass (mg)	Mean Dry Wt (mg)**												
EWSED09 (Ref 2)	76	2.15	2.95												
2-Methylnaphthalene	NA	NA	0.00061 J	Low	0.070	0.000018 U	0.03								
4,4'-DDT	NA	NA	0.00160	Mid	0.00119	< 0.0000014 J	0.000001								
Acenaphthene	NA	NA	< 0.00076	NA	0.016	< 0.0000044	0.0404								
Acenaphthylene	NA	NA	< 0.00059	NA	0.044	< 0.0000034	NA								
Anthracene	NA	NA	< 0.00058	NA	0.0853	< 0.0000036	0.00018								
Arsenic	NA	NA	2.58	Low	8.2	0.00171 J	0.078								
Benzo(a)anthracene	NA	NA	0.0024 J	Low	0.261	< 0.0000026	NA								
Benzo(a)pyrene	NA	NA	0.0027 J	Low	0.43	< 0.0000043	NA								
Benzo(g,h,i)perylene	NA	NA	0.0032 J	Low	0.67	< 0.0000029	NA								
Chrysene	NA	NA	0.004 J	Low	0.384	< 0.0000034	NA								
Copper	NA	NA	11.7	Low	34	0.000761 U	0.0036								
Dibenz(a,h)anthracene	NA	NA	< 0.0008	NA	0.0634	< 0.0000025	NA								
Endrin Aldehyde	NA	NA	< 0.00012	NA	0.00267	< 0.0000033 J	0.000002								
Endrin Ketone	NA	NA	< 0.000093	NA	0.00267	< 0.0000011	0.000002								
Fluoranthene	NA	NA	0.0055	Low	0.6	< 0.0000044	0.00296								
Fluorene	NA	NA	< 0.00061	NA	0.019	< 0.0000038	0.05								
gamma-chlordane	NA	NA	< 0.00023 J	NA	0.00226	< 0.000016 J	0.000004								
Indeno(1,2,3-cd)pyrene	NA	NA	0.0032 J	Low	0.6	< 0.0000026	NA								
Lead	NA	NA	17.4	Low	46.7	0.000236 U	0.0053								
Nickel	NA	NA	16.5	Low	20.9	0.00669	0.0131								
Phenanthrene	NA	NA	0.0024 J	Low	0.24	< 0.000005	0.0046								
Pyrene	NA	NA	0.0044 J	Low	0.665	< 0.0000035	0.00024								
Zinc	NA	NA	68.3	Low	150	0.00124 U	0.0842								
Total PAHs*	NA	NA	0.03	NA	4.022	NA	NA								
Total Organic Carbon	NA	NA	11,200	NA	NA	NA	NA								
Acid Volatile Sulfides/Simultaneously Extracted Metals	NA	NA	0.062	NA	NA	NA	NA								
Grain Size	NA	NA	See Table 7	NA	NA	NA	NA								

Notes:
bgs - below ground surface
DW - dry weight
J - estimated value
NA - not analyzed, available, or applicable
U - not detected

High	= High concentration within the gradient
Mid	= Mid concentration within the gradient
Low	= Low concentration within the gradient

Bolding indicates that the detected concentration is greater than the ecological screening benchmark (Table 6 Final BERA WP & SAP; URS, 2010a)

Results for duplicate samples are separated by a "/".

* Total PAHs represents the summation of the PAH COPECs detected in sediment from the 2010 BERA data.

** The primary growth endpoint Dry Wt is the dry weight of surviving organisms divided by the number of surviving organisms. Biomass (the dry weight of surviving organisms divided by initial number of organisms) is not routinely applied to sediment testing (EPA, 2000).

***Appendix B shows all of the individual replicates for each test chamber. This table presents the mean bioassay results for each sample based on five replicates.